



Update on Statewide NG9-1-1 Planning

9-1-1 Services Board Meeting

September 30, 2016



Key Topics

- Planning Assumptions
- 9-1-1 Funding Analysis
- Supporting Activities
 - Calendar year 2016
 - Next four years (2017 2020)
- Legislation



Planning Assumptions

- Fluid process focused on the long-term
- Service model approach
- Using 2020 population totals and national service provider benchmarks
- 9-1-1 cost projections will provide a reliable estimate for planning purposes
- NG9-1-1 implementation will occur based on SR pairs
- NG9-1-1 GIS data plan





9-1-1 Funding Analysis

- 9-1-1 Baseline Services and Capabilities
- PSAP Budgets for Services and Capabilities
- 9-1-1 Revenue Model
- NG9-1-1 Deployment Cost Model
- Gap Analysis for NG9-1-1 Transition
- Funding Sources and Sustainment Model
- Legislative and Implementation Strategy





9-1-1 Revenue Model

- Current revenue streams:
 - Compensation Board
 - Communications Sales and Use Tax
 - Wireless Fund (60%)
 - Wireless Billing Agreement
 - Local government
 - PSAP Grant Program
 - Other grant programs





Current 9-1-1 Revenue

Milestone	Jul	Aug	Sep	Oct	Nov	Dec
Document Current Revenue						
NG911 Deployment Cost Model						
ID Funding Gaps for NG911 Transition						
ID Funding Sources and Sustain Model						
ID Legislative Strategy						

Milestone 1 – Current Revenue

Region	▼ Sum of C	omp Board (FY2017)*	Sum of Comm SUT**	Sum of WEP (Available)	Sum of Wireless (FY2015)	Sum of Sub-Total
	1	2,119,830	4,394,265	130,000	4,876,718	11,520,813
	2	1,641,628	1,667,573	70,000	1,362,071	4,741,272
	3	1,400,467	1,748,594	90,000	2,210,075	5,449,136
	4	1,992,352	925,128	80,000	888,780	3,886,260
	5	1,591,041	6,904,537	110,000	7,572,871	16,178,449
	6	1,626,527	2,246,542	105,000	2,182,099	6,160,167
	7	198,739	9,639,185	30,000	7,753,879	17,621,803
Grand To	tal	10,570,584	27,525,823	615,000	26,846,493	65,557,900

Baseline Costs – Sub-total = Local Contribution (add'l analysis on Grants IP)



NG9-1-1 Deployment Cost Model

- Considerations:
 - The desired end-state
 - Non-recurring costs (one-time fees)
 - Recurring costs
 - Preparation of GIS data into a NG9-1-1 format
 - CPE upgrades
 - Text-to-9-1-1
 - Program management support





NG9-1-1 Deployment Cost Model

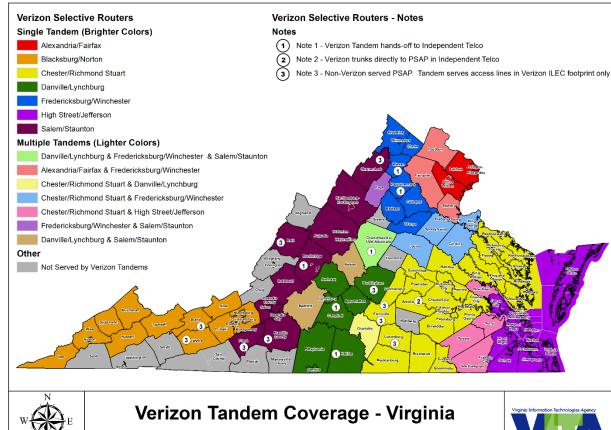
- Considerations:
 - Selective router legacy costs
 - GIS/IT support needed at PSAP-level
 - Personnel costs related to NG9-1-1 staffing analysis
 - CAD expenses
 - Regional anomalies/POI





Transition Strategy

SR <u>Group</u>	Selective Router Grouping for NG9-1-1 Cost Estimate
Α	Plackshurg Norton
А	Blacksburg Norton
В	Chester Richmond Stuart Danville
	Danville Lynchburg Salem
С	Staunton
D	Fairfax - Alexandria
Е	Fredericksburg Winchester
	High Street-Johnson Chester-
F	Richmond
G	Johnson City - Wytheville
Н	Other Non-Verizon





Created 6/24/2015

Source: Verizon E9-1-1 Activation Process Guide http://www22.verizon.com/wholesale/attachments/E911_Act_Guide_July-2014.docx







Cost Model Summary

Cost Element (totals from above PSAP model		Notional Estimate	d Spend Plan for T	ransition to NG9	-1-1 (NG9-1-1 Te	chnology Costs	
and VITA ISP model)							
		Year 1	Year 2	Year 3	Year 4	Year 5	Grand Total
PSAP Transition Plan - Notional for Budget	Sequence						
purposes	Order						
SR Group D Totals	1	\$4,593,325	\$0	\$0	\$0	\$0	
SR Group A Totals	2	\$0	\$6,321,956	\$0	\$0	\$0	
SR Group B Totals	3	\$0	\$0	\$14,264,033	\$0	\$0	
SR Group C Totals	4	\$0	\$9,207,592	\$0	\$0	\$0	
SR Group E Totals	5	\$0	\$0	\$5,972,289	\$0	\$0	
SR Group F Totals	6	\$0	\$0	\$0	\$7,724,152	\$0	
SR Group G Totals	7	\$0	\$0	\$0	\$0	\$8,954,592	
SR Group H Totals	8	\$0	\$0	\$0	\$0	\$3,340,602	
VITA ISP Costs (Consulting Resources)		\$1,750,000	\$1,750,000	\$1,750,000	\$1,750,000	\$1,750,000	
Total NG9-1-1 Budget		\$6,343,325	\$17,279,548	\$21,986,322	\$9,474,152	\$14,045,193	\$69,128,540
Current Legacy Costs - Offset by Transition		Legacy SR Costs Turndown Estimate					
		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Legacy SR Costs to Verizon/Clink & Others							
Total		\$8,366,683	\$8,366,683	\$8,366,683	\$8,366,683	\$8,366,683	\$8,366,683
Minus SR Groups Costs Transitioned Thus Far							
(20% Overlap in transition year)		(\$521,466)	(\$3,052,980)	(\$4,835,571)	(\$4,571,728)	(\$5,712,405)	(\$8,366,683)
Net Legacy SR Costs by Year Payable During				_			
Transition		\$7,845,217	\$5,313,703	\$3,531,112	\$3,794,955	\$2,654,278	\$0



Supporting Activities – 2016

- Regional Advisory Council
- Best Practices
- Data Analytics
- ESInet Requirements
- ESInet RFP
- Commonwealth-wide ALI/MSAG analyses
- 9-1-1 Funding Analysis
- CHE RFP



Supporting Activities - 2017

- Award statewide ESInet RFP
- Leverage PSAP Grant Program to address identified funding gap
- Begin PSAP transition based on SR pairings (Region 7)
- Evaluate the need for additional PSC staff (ESInet oversight)
- Identify additional legislative changes





Supporting Activities - 2018

- Continuing PSAP transition based on SR pairings
- Standards
- Regional governance





Supporting Activities – 2019 & 2020

 Complete PSAP transition based on SR pairings



Legislation - 2016

Renamed Board to "9-1-1 Services Board"

- Established the Board's ESInet and core NG9-1-1 services standard setting authority
- Defined the terms "ESInet" and "NG9-1-1"





Legislation - 2017

- Delay the recalculation of the PSAP wireless funding distribution percentages until July 1, 2018
- Socialize funding needs related to NG9-1-1 transition costs and 9-1-1 sustainment model to address identified funding gap



Legislation - 2018

- Introduce legislative agenda to address identified funding gap for NG9-1-1 transition costs and 9-1-1 sustainment
- To close the gap, may want to consider from the following:
 - Elimination of transfers
 - Elimination of wireless cost recovery
 - Change current uses of Wireless fund
 - Increase wireless 9-1-1 fee or include a NG9-1-1 fee in Communications Tax





Legislation – 2019 & 2020

 Address outstanding issue or new developments





NG9-1-1 Transition Partners

- SCC
- Carriers
- VA chapters of APCO/NENA
- VML and VaCO
- FCC
- VGIN Advisory Board
- Interoperability Coordinator (SPOC)